PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/000239

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_	В	ox No. I	Basis of the report
1	l. W	ith regard ed, unless	to the language , this report is based on the international application in the language in which it was
		☐ inte ☐ pub ☐ inte	port is based on translations from the original language into the following language, sthe language of a translation furnished for the purposes of: mational search (under Rules 12.3 and 23.1(b)) ication of the international application (under Rule 12.4) mational preliminary examination (under Rules 55.2 and/or 55.3)
2	. Wi ha rej	ith regard	to the elements* of the international application, this report is based on (replacement sheets which urnished to the receiving Office in response to an invitation under Article 14 are referred to in this riginally filed" and are not annexed to this report):
	De	scription,	Pages
	1-1	8	received on 17.11.2004 with letter of 16.11.2004
	Cla	ims, Num	bers
	1-44		filed with telefax on 11.04.2005
		a seque	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
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4.		This repo	ort has been established as if (some of) the amendments annexed to this report and listed below made, since they have been considered to go beyond the disclosure as filed, as indicated in the escription, pages aims, Nos. awings, sheets/figs quence listing (specify): ble(s) related to sequence listing (specify):
	*		4 applies, some or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/000239

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-44

No: Claims

Inventive step (IS) Yes: Claims 1-44

No: Claims

Industrial applicability (IA) Yes: Claims 1-44

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: EP-B-0 394 333 (BUKH MEDITEC) 31 October 1990 (1990-10-31)
- D2: STAFFORD M K ET AL: "A PLACEBO-CONTROLLED, DOUBLE-BLIND PROSPECTIVE STUDY IN HEALTHY FEMALE VOLUNTEERS OF DEXTRIN SULPHATE GEL" JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES AND HUMAN RETROVIROLOGY, LIPPINCOT-RAVEN, XX, vol. 14, no. 3, 1 March 1997 (1997-03-01), pages 213-218, XP001095808 ISSN: 1077-9450
- D3: WO 92/04904 A (ML LAB PLC) 2 April 1992 (1992-04-02)
- D4: EP-A-0 240 098 (UENO SEIYAKU OYO KENKYUJO KK) 7 October 1987 (1987-10-07)
- D5: MCCORMACK S ET AL: "MICROBICIDES IN HIV PREVENTION" BMJ. BRITISH MEDICAL JOURNAL, LONDON, GB, vol. 322, no. 7283, 17 February 2001 (2001-02-17), pages 410-413, XP001145843 ISSN: 0959-8146
- D6: CHIRIFE J ET AL: "Effect of potassium sorbate and pH on the survival of Staphylococcus aureus in saturated sugar solutions." REVISTA ARGENTINA DE MICROBIOLOGIA. 1993 APR-JUN, vol. 25, no. 2, April 1993 (1993-04), pages 80-87, XP009031004 ISSN: 0325-7541
- D7: US 2002/173485 A1 (BRAGUTI GIANLUCA ET AL) 21 November 2002 (2002-11-21)

The document D2 is regarded as being the closest prior art to the subject-matter of claim 1, and shows a pharmaceutical gel formulation comprising dextrin sulphate and lactic acid to be applied on mucosae for decreasing the risk of contracting sexually transmitted diseases and, in particular AIDS.

The subject-matter of claim 1 differs from this known D2 in that sorbic acid or a salt thereof is added to the formulation as a preservative.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/000239

The subject-matter of claim 1, therefore, appears to be new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as the provision of a preservative system for polyglucose compositions (in particular dextrine sulphate) with a broad spectrum of activity against a wide range of bacteria and fungi which avoids or mitigates the possibility of disrupting the healthy vaginal microflora (see description, page 3, second par.)

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) because, although sorbic acid and its salts are known as preservative agents (D1, D6 and D7), it is not suggested, by the available prior art, to use sorbic acid or its salts in combination with polyglucose in order to achieve both the preservation of the formulation and the maintenance of a healthy vaginal microflora.

Claims 2-34, which are dependent on claim 1, and claims 35-44 which are the corresponding use claims also meet the requirements of the PCT with respect to novelty and inventive step.